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PTO/SB/08A (07-05)
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 U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 14

Complete if Known

Application Number	10/815,791
Filing Date	April 2, 2004
First Named Inventor	Cristian M. NECULESCU, et al.
Art Unit	1732
Examiner Name	Eashoo, Mark
Attorney Docket Number	11934P1D1D1

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code* (if known)			
		US- 1440070	12-26-1922	FRY	
		US- 1813810	07-07-1931	MCDONALD ET AL.	
		US- 1848066	03-01-1932	SHEPARD ET AL.	
		US- 2719413	10-04-1955	PANZER	
		US- 2738915	03-20-1956	ST. CLAIR	
		US- 3030330	04-17-1962	CINES ET AL.	
		US- 3067922	12-11-1962	HILL	
		US- 3271354	09-06-1966	WEISSERT ET AL.	
		US- 3353974	11-21-1967	TRIMBLE ET AL.	
		US- 3422056	01-14-1969	CARTON	
		US- 3507951	04-21-1970	MORECROFT ET AL.	
		US- 3582384	06-01-1971	BELDE ET AL.	
		US- 3672538	06-27-1972	WIEDEMANN	
		US- 3675811	07-11-1972	ARTZ	
		US- 3696849	10-10-1972	DAVIS	
		US- 3702356	11-07-1972	HALL	
		US- 3767444	10-23-1973	ZEISBERGER	
		US- 3811594	05-21-1974	PAULUCCI	
		US- 3844810	10-29-1974	POLLARD	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T‡
		Country Code* Number* Kind Code* (if known)				
		DE 1 704 405	07-08-1971	BECKER ET AL.		
		DE 2 007 552	09-02-1971	DAVIS		
		DE 25 51 234	05-20-1976	ENG ET AL.		
		DE 296 05 250 U1	09-25-1997	GIZEH-WERK GmbH		
		EP 0 122 686	10-24-1984	UEEDA ET AL.		
		EP 0 167 660	01-15-1986	THOMAS ET AL.		

Examiner Signature	/Jeff Wollschlager/	Date Considered	04/01/2008
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Sheet 2 of 14**Complete if Known**

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		Number-Kind Code ² (if known)			
		US-3865302	02-11-1975	KANE	
		US-3888679	06-10-1975	KOMATSU ET AL.	
		US-3923726	12-02-1975	BENZ	
		US-3931890	01-13-1976	DAVIS	
		US-3953218	04-27-1976	POLLARD	
		US-3978036	08-31-1976	POLLARD	
		US-4004940	01-25-1977	CORMIER	
		US-4039507	08-02-1977	PAIGE ET AL.	
		US-4113822	09-12-1978	TAKIURA ET AL.	
		US-4116909	09-26-1978	MULLER	
		US-4153659	05-08-1979	RECKTENWALD ET AL.	
		US-4154622	05-15-1979	MOMOI ET AL.	
		US-4165302	08-21-1979	ARMENTI ET AL.	
		US-4165357	08-21-1979	VETTER	
		US-4197398	04-08-1980	FLOYD ET AL.	
		US-4209430	06-24-1980	WEBER	
		US-4229504	10-21-1980	BRACHMAN	
		US-4230501	10-28-1980	HOWARD ET AL.	
		US-4235641	11-25-1980	ENGELMANN ET AL.	

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		Country Code ³ Number ¹ Kind Code ² (if known)				
		EP 0 544 429 A1	06-02-1993	FRITZ ET AL.		
		EP 0 640 646 A1	03-01-1995	HIRATA ET AL.		
		EP 0 837 003 A1	04-22-1998	ROLF		
		EP 0 841 150 A2	05-13-1998	NECULESCU ET AL.		
		EP 0 532 233 A1	03-17-1993	LITTLEJOHN		
		FR 2101307	03-06-1972	BERG		

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Sheet **3** of **14**

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		Number-Kind Code ² (if known)			
		US-4264553	04-28-1981	LOO	
		US-4282277	08-04-1981	AUSTEN ET AL.	
		US-4309323	01-05-1982	ORLOFF ET AL.	
		US-4309374	01-05-1982	POLLARD	
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		US-4442243	04-10-1984	WOODHAMS	
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		US-4455092	06-19-1984	PLATTS	
		US-4455344	06-19-1984	MATSUYAMA ET AL.	
		US-4467007	08-21-1984	ELGIE	
		US-4467077	08-21-1984	MEYER ET AL.	
		US-4480064	10-30-1984	CHOPRA ET AL.	
		US-4499227	02-12-1985	BAILEY	
		US-4501843	02-26-1985	NEEDHAM	
		US-4504617	03-12-1985	YUI ET AL.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		JP 4-201234	07-22-1992			
		JP 5-170985	07-09-1993			
		JP 11-315458	11-16-1999			
		JP 59-64647	04-12-1984			
		JP 60-238341	11-27-1985			
		JP 62-265332	11-18-1987			

Examiner Signature: /Jeff Wollschlaeger/

Date Considered: 04/01/2008

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Application Number	10/815,791
Filing Date	April 2, 2004
First Named Inventor	Cristian M. NECULESCU, et al.
Art Unit	1732
Examiner Name	Eashoo, Mark
Attorney Docket Number	11934P1D1D1

U. S. PATENT DOCUMENTS

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	US-	4508859	04-02-1985	MUHL ET AL.	
	US-	4510271	04-09-1985	MUHL ET AL.	
	US-	4522982	06-11-1985	EWEN	
	US-	4524160	06-18-1985	MAEDA ET AL.	
	US-	4528155	07-09-1985	ELDER	
	US-	4536148	08-20-1985	MURLEY ET AL.	
	US-	4550134	10-29-1985	ISOGAI ET AL.	
	US-	4555439	11-26-1985	UEEDA ET AL.	
	US-	4560712	12-24-1985	CHIANG	
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	US-	4578296	03-25-1986	MIYAZAKI ET AL.	
	US-	4599114	07-08-1986	ATKINSON	
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	US-	4604421	08-05-1986	MITSUMO ET AL.	
	US-	4609140	09-02-1986	VAN HANDEL ET AL.	
	US-	4623586	11-18-1986	UMEYA ET AL.	
	US-	4626456	12-02-1986	FARRELL ET AL.	
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	US-	4643940	02-17-1987	SHAW ET AL.	

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		JP 6-203893	07-22-1994			
		JP 56-139927	10-31-1981	NIPPON EKIKA SEIKI KK		
		JP3101864	04-26-1991			
		JP6199334	07-19-1994			
		JP 60-47298/85				

Examiner Signature	/Jeff Wollschlaeger/	Date Considered	04/01/2008
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Sheet **6** of **14**

Application Number	10/815,791
Filing Date	April 2, 2004
First Named Inventor	Cristian M. NECULESCU, et al.
Art Unit	1732
Examiner Name	Eashoo, Mark
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		US- 4810733	03-07-1989	SAKUMA ET AL.	
		4820760	04-11-1989	ALI ET AL.	
		US- 4835195	05-30-1989	RAYFIELD ET AL.	
		US- 4866117	09-12-1989	EGASHIRA ET AL.	
		4879147	11-07-1989	NEWMAN ET AL.	
		US- 4889885	12-26-1989	USUKI ET EL.	
		US- 4891392	01-02-1990	ABE ET AL.	
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		US- 4916010	04-10-1990	YAMANA ET AL.	
		US- 4933529	06-12-1990	SAVILLE	
		US- 4938604	07-03-1990	NAITO ET AL.	
		US- 4948545	08-14-1990	BASHIR ET AL.	
		US- 4960639	10-02-1990	ODA ET AL.	
		US- 4981938	01-01-1991	HANARI ET AL.	
		US- 4987173	01-22-1991	NAMURA ET AL.	
		US- 4987175	01-22-1991	BUNNELL, SR.	
		US- 4994229	02-19-1991	FLECKNOE-BROWN	
		US- 5001182	03-19-1991	MARIYA ET AL.	

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		US- 5015679	05-14-1991	MATUMURA	
		US- 5017015	05-21-1991	SCHLUMPF ET AL.	
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		US- 5053444	10-01-1991	TROTOIR	
		US- 5082888	01-21-1992	ABE ET AL.	
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		US- 5219903	06-15-1993	FUJII ET AL.	
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		US- 5230939	07-27-1993	BAUM	
		US- 5232971	08-03-1993	NOMURA ET AL.	

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		US- 5252384	10-12-1993	BOTHE ET AL.	
		US- 5252659	10-12-1993	KOIZUMI ET AL.	
		US- 5254394	10-19-1993	BOTHE ET AL.	
		US- 5266124	11-30-1993	AL-JUMAH ET AL.	
		US- 5268220	12-07-1993	TAJIMA ET AL.	
		US- 5277970	01-11-1994	SCHUHMAN ET AL.	
		US- 5296430	03-22-1994	FUNABASHI ET AL.	
		US- 5326625	07-05-1994	SCHUHMAN ET AL.	
		US- 5340878	08-23-1994	SADATOSHI ET AL.	
		US- 5376698	12-27-1994	SISPAS ET AL.	
		US- 5424119	06-13-1995	PHILLIPS ET AL.	
		US- 5427266	06-27-1995	YUN	
		US- 5433983	07-18-1995	SCHUHMAN ET AL.	
		US- 5453466	09-26-1995	PELLEGATTI ET AL.	
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		US- 5473016	12-05-1995	FUJII ET AL.	
		US- 4338228	07-06-1982	INOUE ET AL.	

FOREIGN PATENT DOCUMENTS

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Application Number	10/815,791
Filing Date	April 2, 2004
First Named Inventor	Cristian M. NECULESCU, et al.
Art Unit	1732
Examiner Name	Eashoo, Mark
Attorney Docket Number	11934P1D1D1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5480931	01-02-1996	HOCK ET AL.	
		US- 5486561	01-23-1996	HIRANO ET AL.	
		US- 5489471	02-06-1996	INOUE ET EL.	
		US- 5494948	02-27-1996	NISHIO ET AL.	
		US- 5516035	05-14-1996	STONE	
		US- 5516563	05-14-1996	SCHUMANN ET AL.	
		US- 5539040	07-23-1996	ROHRMANN	
		US- 5576374	11-19-1996	BETSO ET AL.	
		US- 5578682	11-26-1996	WHITE	
		US- 5589128	12-31-1996	LAI ET AL.	
		US- 5640186	06-17-1997	SWANSON ET AL.	
		US- 5641524	06-24-1997	RUSH ET AL.	
		US- 5641828	06-24-1997	SADATOSHI ET AL.	
		US- 5686533	11-11-1997	GAHLEITNER ET AL.	
		US- 5744530	04-28-1998	SKELHORN	
		US- 5758773	06-02-1998	CLEMENTS	
		US- 5786427	07-28-1998	KUJIMA ET AL.	
		US- 5792807	08-11-1998	HAYASHIHARA ET AL.	
		US- 5795535	08-18-1998	GIOVANNONE ET AL.	

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Sheet	10	of	14
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		Number:Kind Code ² (if known)			
		US- 5891946	04-06-1999	NOHARA ET AL.	
		US- 5902848	05-11-1999	BURGIN ET AL.	
		US- 6025455	02-15-2000	YOSHITAKE ET AL.	
		US- 6047845	04-11-2000	RAPAZ	
		US- 6124370	09-26-2000	WALTON ET AL.	
		US- 6203893 B1	03-20-2001	NOHARA ET AL.	
		US- 6211501 B1	04-03-2001	MCCARTHY ET AL.	
		US- 6235361 B1	05-22-2001	JACQUEMET ET AL.	
		US- 6241096 B1	06-05-2001	LITTLEJOHN ET AL.	
		US- 6325234 B1	12-04-2001	LEGASPI	
		US- 6371327 B1	04-16-2002	SWIONTEK ET AL.	
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		US- 6459075 B2	10-01-2002	MCCARTHY ET AL.	
		US- 6474497 B1	11-05-2002	LITTLEJOHN ET AL.	
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		US- 6627278 B1	09-30-2003	SANDSTROM ET AL.	
		US- 6670592 B2	12-30-2003	MCCARTHY ET AL.	

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		Number-Kind Code ² (if known)			
		US- 6733852 B2	05-11-2004	LITTLEJOHN ET AL.	
		US- 6866905 B1	03-15-2005	SANDSTROM ET AL.	
		US- 6881937 B2	04-19-2005	SWIONTEK	
		US- DES. 169133	03-31-1953	FOSTER	
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		US- D437527 S	02-13-2001	LITTLEJOHN ET AL.	
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Art Unit	1732
Examiner Name	Eashoo, Mark
Attorney Docket Number	11934PD1D1

Sheet 12

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		STANDARD TEST METHOD FOR MELT FLOW RATES OF THERMOPLASTICS BY EXTRUSION PLASTOMETER; ASTM Designation: D 1238-00; Pg 260-268.	
		SHERMAN, LILLI MANOLIS; NANOCOMPOSITES-A LITTLE GOES A LONG WAY; Pg. 52-54; www.plasticstechnology.com; June 1999.	
		KIRK-OTHMER; ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY; Fourth Edition, Volume 19; Pg. 600.	
		DIPL.-ING. HANS DOMININGHAUS; DIE KUNSTSTOFFE UND IHRE EIGENSCHAFTEN; VDI-Verlag GmbH; Dusseldorf 1992; Pg. 56.	
		HUNTERLAB; THE SCIENCE OF APPEARANCE-INTRODUCTION TO THE CONCEPT OF COLOR AND GLOSS; Pg. 96-99; January 1983.	
		THRONE, JAMES L.; THERMO FORMING; Hanser Publishers; Pg. 26, 97-98, 113-114, 170-172, and 191-210.	
		SCHEINER, LOWELL L.; PROCESS PROFITABLY: DO YOUR OWN COLOR BLENDING; Plastics Technology, July 1971	
		MACK, WOLFGANG A., DR. AND PFLEIDERER CORP.; HOW TO SET UP A COMPOUNDING LINE; Plastics Technology, July 1971.	
		DUNCAN, RICHARD, E., ET AL.; AN EXTRUDER'S GUIDE TO COLORING FILM; Plastic Technology, September 1971; Pg. 44-47.	
		MACBRIDE, ROLAND R.; COMPOUNDERS EXPAND ROLE IN DEVELOPMENT OF NEW THERMOPLASTICS; Modern Plastics, May 1985; Pg. 66-69.	

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		KIRK-OTHMER; ENCYCLOPEDIA OF CHEMICAL TECHNOLOGY; Fourth Edition, Volume 19; Pg. 600.	
		DIPL.-ING. HANS DOMININGHAUS; DIE KUNSTSTOFFE UND IHRE EIGENSCHAFTEN; VDI-Verlag GmbH; Dusseldorf 1992; Pg. 56.	
		HUNTERLAB; THE SCIENCE OF APPEARANCE-INTRODUCTION TO THE CONCEPT OF COLOR AND GLOSS; Pg. 96-99; January 1983.	
		THRONE, JAMES L.; THERMO FORMING; Hanser Publishers; Pg. 26, 97-98, 113-114, 170-172, and 191-210.	
		SCHEINER, LOWELL L.; PROCESS PROFITABLY: DO YOUR OWN COLOR BLENDING; Plastics Technology, July 1971	
		MACK, WOLFGANG A., DR. AND PFLEIDERER CORP.; HOW TO SET UP A COMPOUNDING LINE; Plastics Technology, July 1971.	
		DUNCAN, RICHARD, E., ET AL.; AN EXTRUDER'S GUIDE TO COLORING FILM; Plastic Technology, September 1971; Pg. 44-47.	
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		COMPOUNDING SYSTEMS DEVELOPED FOR RTPs; Modern Plastics, April 1974; Pg. 60.	
		REINFORCEMENTS (NONFIBROUS); Modern Plastics, July 1979; Pg. 45-46.	
		MANUFACTURING HANDBOOK AND BUYERS' GUIDE 1986/87; Plastics Technology, Vol. 32 No. 8; Mid-July 1986; Pg. 466-482.	
		SOLVAY POLYMERS; MATERIAL SAFETY DATA SHEET CODE PP100; January 1997; Pg. 1-2.	
		Product Data Sheet: FORTILENE(R) PP 9600; SOLVAY POLYMERS.	
		Product Data Sheet: FORTIFLEX(R) HDPE HP55-50-155; SOLVAY POLYMERS.	
		Preliminary Data Sheet: FORTILENE(R) HB3152; SOLVAY POLYMERS.	
		Product Data Sheet: ESCORENE(R) HIGH DENSITY POLYETHYLENE; HDZ-128 MMW-HDPE BLOWN FILM RESIN; EXXON CHEMICAL; PETD Updated 11/97.	
		Product Data Sheet: ESCORENE(R) POLYPROPYLENE; PP4772 AN ORIENTED FILM RESIN; EXXONN CHEMICAL; Printed 10/97.	
		A GUIDE TO TIOXIDE(R) TR23; 1981	

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		Typical Property Data Sheet: FRANKLIN INDUSTRIAL MINERALS L-140; Issued 10-01-1997.	
		Brochure: HUBER ENGINEERED MINERALS; HUBER Q(R) SERIES CALCIUM CARBONATE FILLERS AND EXTENDERS.	

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